

The below claims replace all previous versions of the claims.

Claims 1-67. Canceled

68) (New) A heat insulating paper cup prepared from:

- a) a body member having an inside surface and an outside surface, wherein the body member is coated or partially coated on the inside surface with an unfoamed modified low density polyethylene and on the outside surface with a foamed low density polyethylene; and
- b) a bottom panel member having an upper surface and a bottom surface, wherein the bottom panel member is coated on the upper surface with an unfoamed low density polyethylene or an unfoamed modified low density polyethylene, wherein the body member and bottom panel member are oriented and joined to form a heat seal at an interface between a coated portion of the inside surface of the body member and a coated portion of the upper surface of the bottom panel member.

69) (New) The heat insulating paper cup of claim 68, wherein the modified low density polyethylene will not foam under conditions of about 240 °F to about 270 °F and a residence time of about 1.5 to about 2.5 minutes when the cup is subjected to foaming operations in a forced hot-air oven.

70) (New) The heat insulating paper cup of claim 68, wherein the low density polyethylene entirely covers the outer surface of the body member.

71) (New) The heat insulating paper cup of claim 68, wherein the inner surface of the body member is covered with an unfoamed film of modified low density polyethylene, thereby providing an inner lining on the body member.

72) (New) The heat insulating paper cup of claim 71, wherein the inner lining provides a seal to prevent the penetration of liquid contents into the paper during use.

73) (New) The heat insulating paper cup of claim 68, wherein water is present in the body member and the bottom panel member prior to foaming of the cup, and wherein the inner lining prevents the water present in the paper from evaporating directly into air atmosphere when the cup is heated during a foaming operation.

- 74) (New) The heat insulating paper cup of claim 68, wherein the low density polyethylene on the outer surface of the body member is from 25 to 60 μm .
- 75) (New) The heat insulating paper cup of claim 68, wherein the low density polyethylene or modified low density polyethylene are present on the inner body member surface and inner bottom panel surface in an amount sufficient to prevent permeation of liquid through the respective members during use.
- 76) (New) The heat insulating paper cup of claim 68, prepared from paper sheets comprising from about 3 % to about 10 % water.
- 77) (New) The heat insulating paper cup of claim 68, wherein the modified low density polyethylene is present and wherein the polyethylene is modified by blending with a suitable amount of high density polyethylene to prevent the blend from foaming when the cups are subjected to a foaming operation.
- 78) (New) The heat insulating paper cup of claim 77, wherein the blend comprises from approximately 90 % low density polyethylene and 10 % high density polyethylene to 10 % low density polyethylene and 90 % high density polyethylene.
- 79) (New) The heat insulating paper cup of claim 77, wherein the blend comprises from about 2 % to about 7% high density polyethylene.
- 80) (New) The heat insulating paper cup of claim 68, wherein the heat seal will not peel apart at a 180 ° angle at a crosshead speed of 1 inch per minute when tested on a Model 4202 Instron Tensile Tester.